



1764
PATENT
TH1993

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/841,129

Confirmation No.: 5749

Filing Date: April 24, 2001

Inventors: Wellington et al.

Title: IN SITU THERMAL
PROCESSING OF A COAL
FORMATION PRODUCING A
MIXTURE WITH
OXYGENATED
HYDROCARBONS

§ Examiner: M. C. Knode
§ Group/Art Unit: 1764
§ Atty. Dkt. No.: 5659-06800

CERTIFICATE OF MAILING
UNDER 37 C.F.R. §1.8
8-13-03

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INFORMATION DISCLOSURE STATEMENT

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Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 (S05, U1-U2 and T01-T54) be considered by the Examiner and made of record. Copies of the listed documents are enclosed for the convenience of the Examiner.

Should any fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzl, P.C. Deposit Account No. 50-1505/5659-06800/EBM.

Respectfully submitted,

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Form PTO-1449 (modified)
 List of Patents and Publications
 For Applicant's Information
 Disclosure Statement
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PATENT & TRADEMARK OFFICE

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U.S. PATENT DOCUMENTS

| EXAM. INITIALS | REF. DES | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|-------------------|-------------|--------------------|------------|---------------|-------|--------------|-------------------------------|
| | S5 | 2,857,002 | 10/21/1958 | Pevere et al. | | | |
| | U1 | 3,165,154 | 1/12/1965 | Santourian | | | |
| | U2 | 4,458,757 | 7/10/1984 | Bock et al. | | | |

FOREIGN PATENT DOCUMENTS

| EXAM. INITIALS | REF. DES. | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES/NO |
|-------------------|-----------|--------------------|------------|---------|-------|--------------|-----------------------|
| | T01 | 1836876 | 12/30/1994 | SU | | | Y |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| T03 | Burnham et al. "A Possible Mechanism of Alkene/Alkane Production in Oil Shale Retorting, (7 pages). |
| T04 | Campbell, et al., "Kinetics of oil generation from Colorado Oil Shale" IPC Business Press, Fuel, 1978, (3 pages). |
| T05 | Cummins et al. "Thermal Degradation of Green River Kerogen at 150° to 350 °C", Report of Investigations 7620, U.S. Government Printing Office, 1972, (pages 1-15). |
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| T11 | Hill et al. "Direct Production of Low Pour Point High Gravity Shale Oil" I&EC Product Research and Development, 1967, Volume 6, (pages 52-59). |
| T12 | Yen et al., "Oil Shale" Developments in Petroleum Science, 5, Elsevier Scientific Publishing Co., 1976 (pages 187-198). |
| T13 | SSAB report, "A Brief Description of the Ljungstrom Method for Shale Oil Production," 1950, (12 pages). |
| T14 | Salomonsson G., SSAB report, "The Lungstrom In Situ-Method for Shale Oil Recovery, 1950 (28 pages) |
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| T18 | SSAB report, "Summary study of the shale oil works at Narkes Kvarntorp" (15 pages). |
| T19 | Vogel et al. "An Analog Computer for Studying Heat Transfer during a Thermal Recovery Process," AIME Petroleum Transactions, 1955 (pages 205-212). |

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DATE CONSIDERED:

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| T22 | Ronnby, E. "KVARNTORP-Sveriges Storsta skifferoljeindustri," 1943, (9 pages) |
| T23 | SAAB report, "The Swedish Shale Oil Industry," 1948 (8 pages). |
| T24 | Gejrot et al., "The Shale Oil Industry in Sweden," Carlo Colombo Publishers-Rome, Proceedings of the Fourth World Petroleum Congress, 1955 (8 pages) |
| T25 | Hedbeck, T. J., The Swedish Shale as Raw Material for Production of Power, Oil and Gas," XIth Sectional Meeting World Power Conference, 1957 (9 pages) |
| T26 | SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand", 1955 Vol. 1, (141 pages) English |
| T27 | SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Figures", 1955 Vol. 2, (146 pages) English. |
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| T29 | Helander, R.E., "Santa Cruz, California, Field Test of Carbon Steel Burner Casings for the Lins Method of Oil Recovery", 1959 (38 pages) English. |
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| T36 | SSAB report, "Cost Comparison of Mining and Processing of Shale and Dolomite Using Various Production Alternatives", 1960, (64 pages). Swedish |
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| T38 | SSAB report. "Kartong 2 Shale: Ljungstromsanlaggningen" (104 pages) Swedish. |
| T39 | SAAB, "Photos", (18 pages). |
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| T43 | SSAB report, "Ojematinigar vid Norrtorp," 1945 (141 pages). |
| T44 | SSAB report, "Inhopplingschema, Norrtorp II 20/3-17/8", 1945 (50 pages). Swedish. |
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